PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reterence	FOR FURTHER		see Form PCT/ISA/220
LOCIA/PCT	ACTION	as wei	as, where spelcable, frem 5 below.
international application No.	l sternational filing date (day/mon	hyoar)	(Earliest) Priority Date (day/montrvyear)
PCT/EP2005/050614	11/02/2005	,	19/02/2004
Applicant			
KRATON POLYMERS RESEARCH E	3. 1.		
This international Search Report has been plepared by this international Searching Authority and is transmitted to the lapplicant according to Article 18. A copy is being transmitted to the international Bureau			
This international Search Report consists or a total of 4			
}	}== -7		
1. Basis of the report	at anathrough an early and a second as		
4. With regard to the language, the international search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.			
The international sell on was carried out on the basis of a translation of the international application furnished to this Authority (Rule (8.1(b)).			
b. With regard to any nucleothile and/or amino acid sequence disclosed in the international application, see Box No. i.			
Pr7			
2. Certain claims were found unsearchable (See Box !!).			
3. Unity of invention is lacking (see Box III).			
4. With regard to the title,			
the text is approved as submitted by the applicant.			
[x] the text has been established by this Authority to read as follows:			
LOW VISCOSITY HOT-MELT IDHESIVE COMPOSITION FOR MON-WOVENS			
•			
5. With regard to the abstract,			
the text is approved as sub			
may, within one month from	er : 20 sorbing to Hule (88.216), by the n : ne date of mailing of this internat	iis Authorit ionai saard	y as it appears in Box No. (V. The applicant in record, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawlings to be published with the abstract is Figure No.			
as suggested by the hopticant.			
as selected by this	A abortty because the applicant ta	lleri to suce	gest a figure.
as selected by this A ithority, because this figure better characterizes the Invention.			
none of the figures is to be published with the abstract.			
TOTAL MOTOR Street Stre			

BEST MINI ARIE COPY

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No PCT/EP2005/050614

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims 1-7

Inventive step (IS)

Yes: Claims

Claims No:

1-7

1.7

Industrial applicability (IA)

Yes: Claims

Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCH NG AUTHORITY (SEPARATE SHEET)

International application No

PCT/EP2005/050614

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documen s are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: WO-A-02/057386 (KRATON POLYMERS), 25.07.2002

D2: DE-A-2942128 (BASF AG), 30.04.1981

D3: WPI/DERWENT-abstract 1994-040113 of JP-A-5345885 (KURARAY), 27.12.1993

Document D1 discloses (1,3-6,9; page 5, lines 21-26; tables 1,2; page 1, lines 6-14) a hot-melt adhesive composition comprising a mixt. of (a) 100 pts. wt. of a linear block copolymer of formula A-B-A having a molecular weight of 100000 to 500000 and a coupling efficiency of more than 80%, in which the terminal A blocks are polystyrene and form 10-50 wt.% of the block copolymer and the block B is an elastomeric statistical copolymer of butadiene and isoprene in ratio by wt. of 70:30-70:30, (b) 50-400 pts. wt. of a tackifying resin, (c) up to 200 pts.wt. of a plasticizer, and opt. (d) the usual additives.

Hence, the subject-mat er of claims 1,4 and 5 lacks novelty in view of D1.

The subject-matter of dependent claims 2,3 and 6,7 is also disclosed in D1.

Document D2 discloses (claims) a hot-melt adhesive comprising a mixt. of a) 100 pts. wt. of a non-hydrogenated, linear block copolymer with molecular weight of 30000-300000 of formula A-B-A, in which the terminal A blocks form 10-50 wt.% of the block copolymer and are of polystyrene, and the block B is an elastomeric statistical copolymer of butadiene and isoprene in ratio by wt. of 70:30-5:95. b) 25-300 pts.wt. of a tack fying resin, c) 5-200 pts.wt. of a rubber extending oil as plasticizer, and opt. d) the auxiliary additives.

The coupling efficiency is not disclosed in D2. The molecular weight is determined by a method different from the one in the present application. However, this does not necessarily mean it at the compositions of the present application differ from

WRITTEN OPINION OF THI: INTERNATIONAL SEARCH NG AUTHORITY (SEPARATE SHEET

International application No.

PCT/EP2005/050614

the ones disclosed in E.2. In order to demonstrate the novelty of present claims 1,4 and 5 in view of D2, the Applicant is requested to provide further convincing evidence or arguments

Document D3 discloses a hot-melt adhesive comprising a mixt. of a) 100 pts. wt. of a block copolymer of formula A-B-A, in which the terminal A blocks form 30 wt.% of the block copolymer and are of polystyrene, and the block B is an elastomeric statistical copolymer of butadiene and isoprene in ratio by wt. of 50:50, b) 150 pts.wt. of a tackifying resin, c) 50 pts.wt. of a plasticizer, and d) the auxiliary additives.

Again, the coupling efficiency and the molecular weight are not explicitly disclosed. In order to demonstrate the novelty of present claims 1,4 and 5 in view of D3, the Applicant is requested to provide further convincing evidence or arguments.